

2Q FY00 SIP MILESTONE FULL STATUS REPORT									<table><tr><th>EVAL</th><th>COST</th><th>SCHEDULE</th><th>TECHNICAL</th></tr><tr><td>Blue</td><td>EAC under >5%</td><td>Ahead > 6 weeks</td><td>Met w/less effort</td></tr><tr><td>Green</td><td>EAC w/i 5%</td><td>Within 6 weeks</td><td>Meets</td></tr><tr><td>Yellow</td><td>EAC over 5-15%</td><td>Behind 6-12 weeks</td><td>Prob.s Solvable, Action Plan</td></tr><tr><td>Red</td><td>EAC over > 15%</td><td>Behind >12 wk, Crit Path</td><td>Not Meet, No Action Plan</td></tr></table>				EVAL	COST	SCHEDULE	TECHNICAL	Blue	EAC under >5%	Ahead > 6 weeks	Met w/less effort	Green	EAC w/i 5%	Within 6 weeks	Meets	Yellow	EAC over 5-15%	Behind 6-12 weeks	Prob.s Solvable, Action Plan	Red	EAC over > 15%	Behind >12 wk, Crit Path	Not Meet, No Action Plan
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0A1.0		2000	GRC Objective A1: Reduce aircraft accidents related to icing, weather, poor visibility, and engine problems; develop technology to prevent and suppress aircraft fires.																													
2000A1.1				2000	Complete and publish three-dimensional design guidelines for the control of gear crack paths and the prediction of crack growth rates in ultrasafe gears.	2Q01 4Q00	Late 2Q01	D. Lewicki/ J. Zakrajsek	5950/ 0300	Rotorcraft Base/Safe All Weather Ops for RC (581-30)	GREEN	YELLOW	GREEN	The Glenn rotorcraft base program suffered a 40% cut in funds in FY00. As a result, the SILNT program was cut, and the SAFOR program suffered some milestone delays due to the reduced funding levels. This milestone was one of the efforts that had to be delayed due to funding cuts. The delayed milestone was coordinated with the Rotorcraft Base Program Office at Ames. 5000 S. Foust																		
0A3.0		2000	GRC Objective A3: Reduce the perceived noise of future subsonic aircraft engines designed from those designed before 1997 by a factor of two by the year 2007 and by a factor of four by the year 2022.																													
2000A3.1				0R2	2000	Validate technology to reduce community noise impact by 10 decibels (dB) relative to 1992 technology (engine source noise contribution is a least 6 dB).	4Q00	A. Liang L. Shaw/ D. Huff/ J. Dittmar/ R. Woodward/ C. Huges/	2200/ 5940	Air Frame Systems /Base R&T	GREEN	GREEN	GREEN	0140 B. Mader On schedule and within cost (no change from previous quarter input). 5000 S. Foust																		
0A5.0		2000	GRC Objective A5: Reduce aircraft engine design, development, acquisition, and maintenance costs to help achieve a 25-percent reduction in 1997 air travel cost by the year 2007 and a 50-percent reduction by the year 2022.																													
2000A5.1				2000	Demonstrate a 900 deg. F silicon carbide (SiC) pressure sensor on an engine.	4Q00	C. Ginty/ G. Beheim	2200/ 5510	AeroSpace Propulsion & Power Base Program Higher Operating Temperature Propulsion Components (HOTPC)	GREEN	GREEN	GREEN	On schedule, no problems. 0140 B. Mader 5000 S. Foust																			
0A8.0		2000	GRC Objective A8: Develop computing and testing tools to reduce aircraft engine design and development time.																													

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2000A8.1		2000	Develop ground and flight demonstration capabilities and methodologies for integrated air-breathing propulsion systems for experimental hypersonic vehicles and access to space.	4Q00	Late 1Q01	D. Palac/ R. Blech	0142/ 5880	Aerospace Propulsion & Power Base Propulsion-Systems R&T-Base/Hybrid Propulsion (HHP)	GREEN	YELLOW	GREEN	0140 reported schedule as "Yellow." Mixer/combustor and forebody interactions rigs 1 quarter behind due design difficulty; schedule of other project elements adjusted for later receipt of data. 0140 B. Mader --- 0140 PROPOSES THIS MILESTONE SHOULD BE ELIMINATED AS IT DUPLICATES A9.6 0140 B. Mader --- 5000 reported no cost and schedule as "Green" 5000 S. Foust																				
2000A8.2		2000	Demonstrate real-time, on demand, off-body instrumentation systems suitable for use in high- productivity wind tunnels and aeropropulsion facilities.	4Q00		C. Mercer	5520	Information technology base R&T program (ITTS)	GREEN	GREEN	GREEN	5000 reported cost as "Yellow." One large purchase will be entered into APRS by 5-31-00. It will solve our costing problem. 5000 S. Foust 0140 reported cost as "Green." 0140 B. Mader																				
0A9.0		2000	GRC Objective A9: Reduce the cost contribution of access-to-space propulsion systems and associated subsystems while improving their performance, life, function and operability.			G. BARNA / F- BERKOPEG- P. McCallum	6000/ 0140																									
2000A9.4		2000	Complete a high voltage modular switch breadboard and select most promising candidates for further development.	4Q00		J. Soeder	5450	Launch Technology Bantam	GREEN	GREEN	GREEN	On schedule to make downselect at end of 4th quarter FY 2000. 5000 S. Foust																				
0A10.0		2000	GRC Objective A10: Develop advanced spacecraft propulsion technology.			G. BARNA	6000																									
OngoA10.A	On-going		Investigate breakthrough propulsion physics.	On-going		M. Millis	5870 5880	Space Transportation Research	GREEN	GREEN	GREEN	All NRA selections on contract, research now underway. 5870 Marc G. Millis																				